

# Electronic Engineering Technology (A.A.S.)

Division of Mathematics, Engineering Technologies and Computer Sciences — Curriculum Code: 2307

*Will Earn Upon Program Completion: Associate in Applied Science (A.A.S.) Degree*

Look inside any computer, TV, telephone, medical instrument, or household appliance and you will find electronic components, circuits, and systems. The same is true for traffic control systems, aircraft engines, cameras, automobiles, and other devices. All of these were designed and manufactured by engineers and technicians trained in the principles of electronic technology. This program prepares students to work with engineers in the design, fabrication, installation, operation, maintenance, and repair of electronic and electrical instruments and machinery. The program is accredited by the Engineering Technology Accreditation Commission or 'ABET', <http://www.abet.org>.

## Program Requirements

### GENERAL EDUCATION REQUIREMENTS (20 CREDITS)

Written & Oral Communication (6 credits)

[ENG 101](#) (3 credits)

[ENG 102](#) or [ENG 105](#) (one 3-credit course)

Scientific Knowledge & Reasoning (4 credits)

[PHY 101](#) (one 4-credit course)

Quantitative Knowledge & Skills (6 credits)

[MTH 114](#) (3 credits)

[MTH 213](#) (3 credits)

Society & Human Behavior (6 credits)

Choose two of the following courses: [ANT 101](#)[ANT 105](#)[ECO 101](#)[ECO 102](#)[POL 101](#)[POL 104](#)[PSY 101](#)[PSY 102](#)[PSY 219](#)[SOC 101](#)[SOC 108](#) or [SOC 219](#) (one 3-credit courses)

Historical Perspective (3 credits)

Choose one of the following history courses: [HST 101](#)[HST 102](#)[HST 111](#)[HST 112](#)[HST 121](#)[HST 122](#)[HST 131](#)[HST 132](#)[HST 134](#)[HST 135](#)[HST 136](#)[HST 137](#)[HST 161](#) or [HST 162](#) (one 3-credit course)

### MAJOR COURSE REQUIREMENTS

[ENR 100](#) Intro. to Engineering (2 credits)

[ELC 115](#) Electric Circuits: DC and AC (4 credits)

[ELC 120](#) Electronics I: Semiconductor Components (4 credits)

[ELC 211](#) Electric Power (3 credits)

[ELC 218](#) Pulse and Digital Circuits (3 credits)  
[ELC 221](#) Electronics II: Amplifiers (4 credits)  
[ELC 222](#) Electronics III: Communications Systems (4 credits)  
[ELC 224](#) Linear Circuit Analysis (3 credits)  
[ELC 228](#) Introduction To Microprocessors (4 credits)

### **ADDITIONAL COURSE REQUIREMENTS (13 CREDITS)**

[CSC 112](#) Computer Programming for Engineering and Technology (3 credits)  
[ENR 103](#) Engineering Graphics (2 credits)  
[PHY 102](#) College Physics II (4 credits)

### **RECOMMENDED SEQUENCE OF COURSES**

Total Credits Required for Degree: 62

First Semester

[ENG 101](#) College Composition I (3 credits)  
[ENG 100](#) Intro to Engineering (2 credits)  
[ELC 115](#) Electric Circuits: DC and AC (4 credits)  
[MTH 114](#) Unified Calculus I (3 credits)  
[PHY 101](#) College Physics I (4 credits)

Second Semester

[ENG 102](#) College Composition II OR ENG 105 Technical Writing (3 credits)  
[ENR 103](#) Engineering Graphics (2 credits)  
[ELC 120](#) Electronics I Semiconductor Components (4 credits)  
[MTH 114](#) Unified Calculus I (3 credits)  
[PHY 102](#) College Physics II (4 credits)

Summer Session

Society & Human Behavior requirement (one 3-credit course)  
Historical Perspective requirement (one 3-credit course)

Third Semester

[CSC 112](#) Computer Programming For Engineering and Technology (3 credits)  
[ELC 211](#) Electric Power (3 credits)  
[ELC 218](#) Pulse and Digital Circuits (3 credits)  
[ELC 221](#) Electronics II: Amplifiers (4 credits)

Fourth Semester

[ELC 222](#) Electronics III: Communication Systems (4 credits)  
[ELC 224](#) Linear Circuit Analysis (3 credits)  
[ELC 228](#) Introduction To Microprocessors (4 credits)  
Society & Human Behavior requirement (one 3-credit course)

NOTES:

(1) The two General Education Integrated Course Goals, Ethical Reasoning & Action and Information Literacy, are both addressed by the required curriculum described above, regardless of specific choices made by the individual student.

(2) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other [pre-requisites](#) and [co-requisites](#) for some of the courses, as listed in the Course Descriptions section.